Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_

202 More Chapter 2 Proofs

(2.6-2.8 worksheet #3)

1. Given: ∠6 and ∠7 are complementary Statements Reasons

m∠7 = m∠5

1.

2.

3. m∠6 + m∠5 = 90

4. m∠6 + m∠5 = m∠XWY

5.

6.

7.

1. Given
2. Def. of complementary

5. Substitution
6. Def. of right angle

Prove: WX ⊥ WY



1. Given: ∠2 and ∠3are supplementary Statements Reasons

Prove: ∠1 ≅ ∠4



3. Given: TY ⊥ TW

Statements Reasons

Prove: m∠1 + m∠5 = 90





4. Given: OT bisects ∠QOP

Prove: ∠3 ≅ ∠2

* S

Statements Reasons

5. Given: AC bisects ∠DAB Statements Reasons

 AC bisects ∠BCD

1. Given

2.

3.

4.

5.

6. Given

7.

8.

1. ~
2. m∠1 = m∠2

m∠3 = m∠4

1. m∠DAB = m∠1 + m∠2

m∠DCB = m∠3 + m∠4

1. m∠DAB = m∠1 + m∠1

m∠DCB = m∠3 + m∠3

1. m∠DAB = 2 m∠1

m∠DCB = 2m∠3

1. m∠1 = m∠3
2. 2m∠1 = 2m∠3
3. m∠DAB = m∠DCB

m∠1 = m∠3

Prove: m∠DAB = m∠DCB

6. Given: ∠8 ≅ ∠9

Prove: ∠7 ≅ ∠10 Statement Reasons

7. Given: ∠11 ≅ ∠13

Prove: ∠12 ≅ ∠14 Statement Reasons



8. Given:

Prove: ∠1 ≅ ∠4 Statements Reasons